

## Message Text

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45

ACTION OES-05

INFO OCT-01 IO-10 ISO-00 ACDA-10 CIAE-00 INR-07 L-03

NSAE-00 NSC-05 EB-07 NRC-07 FEAE-00 DODE-00 AID-05

NEA-10 /070 W

----- 078589

R 260853Z AUG 75

FM USMISSION IAEA VIENNA

TO SECSTATE WASHDC 6296

INFO USERDA GERMANTOWN

UNCLAS IAEA VIENNA 7277

DEPT PASS NRC

E.O. 11652: N/A

TAGS: IAEA, TECH

SUBJECT: IAEA PURCHASE OF SPECIAL NUCLEAR MATERIAL FROM U.S.

REF: IAEA VIENNA 6852

1. AGENCY SENT PURCHASE ORDER NUMBER IAEA 75CL-7151  
DATED FEBRUARY 7, 1975 TO GE VALLECITOS FOR FOLLOWING  
ITEMS TO BE USED IN CONNECTION WITH AGENCY SAFEGUARDS  
ACTIVITIES RELATED TO TARAPUR FUEL: A) 75 TRACK-ETCH  
BUTTON MONITORS PLUS 100 FILMS.

B) FIFTY U-235 AND U-238 FISSION FOILS FOR USE IN  
BUTTONS, EACH 0.25 INCH (0.63 CM) BY 10 MG/CM SQUARED  
OR THICKER. U-235 TO BE ENRICHED TO AT LEAST 90 PERCENT  
WT U-235 AND PREFERABLY 93 PERCENT WT OR HIGHER.  
PREFERRED FORM IS 10 MG/CM SQUARED OR THICKER COATING  
OF U-DEPOSITED ONTO 0.05INCH THICK NICKEL SUBSTRATE.  
METAL FOIL THICKER THAN 0.001 INCHES IS ACCEPTABLE BUT  
MUCH LESS DESIRABLE FROM STANDPOINT OF HANDLING. DEPLETED  
U-238 TO CONTAIN LESS THAN 15 PPM U-235. MATERIAL  
SHOULD BE IN FORM OF EITHER 10 MG/CM SQUARED OR  
THICKER URANIUM COATING DEPOSITED ONTO 0.05 INCH  
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NICKEL SUBSTRATE ON METAL FOIL THICKER THAN 0.001

INCHES.

C) DESIGN AND INITATION OF FABRICATION OF  
CLIPS AND FIXTURES FOR POSITIONING BUTTONS ADJACENT  
TO ELEMENTS.

D) PROCESS FIFTY FILMS, COUNT FISSION TRACKS AND  
REPORT TRACK DENSITY DATA TO IAEA (BASED ON REPROCESSING  
AND ANALYSIS OF FITY FILMS IN THREE SEPARATE BATCHES).

2. TOTAL VALUE OF ORDER IS \$7,505. PURPOSE OF FOILS  
IS TO USE NEUTRON TECHNIQUE TO FINGERPRINT BWR  
SPENT FUEL IN TARAPUR REPROCESSING PLANT WHERE CON-  
VENTUAL NON-DESTRUCTIVE ANALYSIS IS NOT RPT NOT  
POSSIBLE.

3. MISSION UNDERSTANDS FROM DISCUSSIONS WITH MAHY/  
ERDA THAT MATERIAL FOR THESE BUTTONS IS BEING MADE  
AVAILABLE, AND HOPEFULLY BUTTONS CAN BE SHIPPED BY  
END SEPTEMBER.

4. MISSION ASSUMES THAT SMALL QUANTITIES OF SNM  
INVOLVED WOULD BE TRANSFERRED TO IAEA PURSUANT TO  
U.S./IAEA AGREEMENT OF COOPERATION. SINCE AGENCY  
PLANS TO USE BUTTONS IN INDIA, HOWEVER, SITUATION IS  
LESS CLEAR AT SUCH TIME AS AGENCY TRANSFERS  
BUTTONS TO INDIA FOR USE IN CONNECTION WITH AGENCY'S  
SAFEGUARDS ACTIVITIES THERE. IN ANY EVENT, MISSION  
TRUSTS THAT U.S. WILL TAKE STEPS TO ASSURE THAT THERE  
WILL BE NO UNNECESSARY DELAYS IN TRANSFERRING THESE  
BUTTONS TO IAEA.LABOWTIZ

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** EQUIPMENT, PROCUREMENT, NUCLEAR FUELS, NUCLEAR SAFEGUARDS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 26 AUG 1975  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
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**Disposition Approved on Date:**  
**Disposition Authority:** n/a  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
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**Document Unique ID:** 00  
**Drafter:** n/a  
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**TAGS:** TECH, IAEA  
**To:** STATE  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 06 JUL 2006